# RT Series Respirator Hood User Manual

Bullard RT Series Respiratory Systems provide a continuous flow of air from a remote air source via airline. The flow of air is delivered to the respirator wearer through a patented air delivery system. RT Series respirators offer protection from airborne contaminants that are not immediately dangerous to life or health (IDLH), or that do not exceed concentrations allowed by applicable OSHA, MSHA, EPA, NIOSH or ACGIH regulations and recommendations, or any other applicable regulations for continuous flow airline or powered air-purifying respirators.

RT Series airline respirators are approved by NIOSH (TC-19C-412 Type C). Bullard has determined that these respirators may be used to provide respiratory protection in general purpose applications, including pharmaceutical manufacturing, chemical and pesticide handling, tank cleaning, spray painting and other industrial or agricultural applications in which hazardous compounds are present.

Bullard RT hoods are available in two different Tychem® materials. Bullard hoods will accommodate limited facial hair without compromising the level of protection. The hood is held in place by the inflatable neck cuff (RT1 and RT2) or a sport material neck cuff (RT3 and RT4), which fits under the wearer's chin and provides a positive seal. This keeps the hood in position on the head and prevents it from rising upwards when supplied with breathing air. Breathing air is supplied from a breathing tube connected to the back of the hood, and the air is routed through overhead channels that deliver the air down across the lens of the hood.

RT Series respirators are compatible with breathing air sources such as breathing air compressors. Bullard offers the appropriate approved breathing tube, flow control device and air supply hose to connect the RT Series respirator to these breathing air sources.

RT Series respirators are approved by NIOSH for use with optional Bullard climate control devices. Contact Bullard or our local authorized distributor for more information about these and other accessories for RT Series respirators. All Bullard parts must be present and properly assembled to constitute a NIOSH approved respirator. For technical assistance, contact Bullard Cutomer Service at 877-BULLARD (285-5273) or 859-234-6616.

**NOTE**
Bullard RT Series hoods are also NIOSH approved for certain PAPR configurations. Please refer to your Bullard PAPR manual or call Customer Service at 877-BULLARD (285-5273).

**⚠ WARNING**

Read all instructions and warnings before using these respirators. Save this manual for future reference.
The RT Series respirator's air source must supply clean, breathable air, Grade D or better, at all times. The RT respirator does not purify air or filter out contaminants. Connecting the RT respirator to a line supplying nitrogen or other harmful gases could cause death or serious injury. Failure to follow these instructions could result in death or serious injury.

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**RT Series Respirator**
**This respirator is approved only in the following configurations:**

**Bullard**
**Cynthiana, KY 41031 USA**
**1-800-827-0423**

| TC- | PROTECTION1 | MODEL | ALTERNATE HOOD ASSEMBLIES | | | | ALTERNATE BREATHING TUBES | | ALTERNATE FLOW CONTROL DEVICES | | | |

## Component Concept

### RT Series

Bullard RT Series airline respirators consist of four components (Figure 1); all must be present and properly assembled to constitute a complete NIOSH approved respirator.

① **Respirator Hood:** Available in two Tychem®-based materials.

| | |
|---|---|
| RT1 | Tychem QC hood, inner bibs, inflatable neck cuff |
| RT2 | Tychem SL hood, inner bibs, inflatable neck cuff |
| RT3 | Tychem QC hood, inner bib, sport neck cuff |
| RT4 | Tychem SL hood, inner bib, sport neck cuff |

② **Breathing Tube for RT Series Respirators:**

| | |
|---|---|
| 20BT | Wire-reinforced heavy-duty breathing tube |
| RTBT | Lightweight disposable breathing tube |

③ **Flow Control Device:** Connects respirator hood to air supply hose. Available with a choice of quick-disconnect fittings, constant or adjustable airflow control and optional climate control devices.

| Flow Control Device* | | | | |
|---|---|---|---|---|
| Without Climate Control Devices | | With Climate Control Devices | | |
| | | Cold Only | | Hot/Cold |
| Constant | | Adjustable | | |
| PART No. | F30 | F40 | AC100030 | HC240030 |
| | F30B | F40B | AC10030B | HC240030B |
| | F30S | F40S | AC10030S | HC240030S |
| | F31 | F41 | AC10031 | HC240031 |
| | F32 | F42 | AC10032 | HC240032 |
| | F33 | F43 | AC100033 | HC240033 |
| | F34 | F44 | AC100034 | HC240034 |
| | F35 | | FRIGITRON 2000 | |
| | F35B | | FRIGITRON 2000B | |
| | F35S | | FRIGITRON 2000S | |
| | | | DC5040 | |
| | | | DC5040B | |
| | | | DC5040S | |
| | | | DC5041 | |
| | | | DC5042 | |
| | | | DC5043 | |
| | | | DC5044 | |

*All flow control devices require the 20BT or RTBT breathing tube to constitute complete breathing tube assemblies. Breathing tube must be purchased separately.

④ **Air Supply Hose:** Connects breathing tube to air source supplying clean breathable air.

| Hose for High Pressure Compressed Air Source | | Hose for Low Pressure Ambient Air Pump |
|---|---|---|
| V5<br>3/8" Coiled I.D. Hose<br>V5 Starter/Extension Hose<br><br>Available in 25 and 50 foot lengths with a variety of 1/4" and 1/2" quick-disconnect fitting styles and materials. See parts list (page 11) for details. | V10<br>3/8" Coiled I.D. Hose<br>469 Starter Hose<br>545 Extension Hose<br><br>Available in 25, 50, and 100 foot lengths with a variety of 1/4" quick-disconnect fitting styles and materials. See parts list (page 11) for details. | V20<br>1/2" Coiled I.D. Hose<br>V5 Starter/Extension Hose<br><br>Available in 50 and 100 foot lengths with 1/2" quick-disconnect Industrial Interchange fittings. See parts list (page 11) for details. |

## Cautions and Limitations

### For RT Series Airline Respirators

A. Not for use in atmospheres containing less than 19.5% oxygen.
B. Not for use in atmospheres immediately dangerous to life or health (IDLH). IDLH is defined in 29 CFR 1910.134(b).
C. Do not exceed maximum use concentrations established by regulatory standards.
D. Airline respirators can be used only when respirators are supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality.
E. Use only the pressure ranges and hose lengths specified in the instruction manual.
I. Contains electrical parts that may cause an ignition in flammable or explosive atmospheres.
J. Failure to properly use and maintain this product could result in injury or death.
M. All approved respirators shall be selected, fitted, used, and maintained in accordance with MSHA, OSHA, and other applicable regulations.
N. Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
O. Refer to users instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
S. Special or critical User's Instructions and/or specific use limitations apply. Refer to User's Instructions before donning.

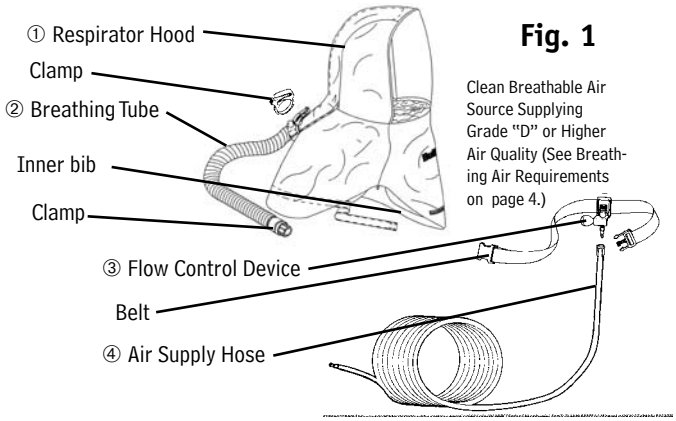

① Respirator Hood
Clamp
② Breathing Tube
Inner bib
Clamp
③ Flow Control Device
Belt
④ Air Supply Hose
Clean Breathable Air Source Supplying Grade "D" or Higher Air Quality (See Breathing Air Requirements on page 4.)

**Fig. 1**

**⚠ WARNING**

Failure to heed these warnings could result in death or serious injury.
Use strictly in accordance with instructions, labels and limitations pertaining to the RT Series respirator.

1. The RT Series respirator does not supply oxygen.
2. Use only in adequately ventilated areas containing at least 19.5% oxygen.
3. Do not use when concentrations of contaminants are immediately dangerous to life or health (IDLH). IDLH is defined in 29 CFR 1910.134(b).
4. Do not use these respirators for respiratory protection against abrasive blasting using silica sand as the abrasive.
5. Do not use in circumstances where the airborne concentration level of contaminant exceeds maximum use concentration for this type of respirator as established by regulatory standards.
6. Leave area immediately if:
   a. Breathing becomes difficult.
   b. Dizziness or other distress occurs.
   c. You taste or smell the contaminant.
   d. Unit becomes damaged.
7. Use strictly in accordance with instructions, labels and limitations pertaining to the RT Series respirator in use.
8. Never alter or modify this respirator. Use only NIOSH approved Bullard RT Series components and replacement parts for this respirator.

# Operations

## Protection

### Respiratory

The RT Series respirator is NIOSH approved (TC-19C-412) as a Type C continuous-flow supplied air respirator. It can be worn for general purpose applications, including pharmaceutical manufacturing, chemical and pesticide handling, tank cleaning, spray painting, and other industrial or agricultural applications in which hazardous compounds are present.

The RT Series respirator is not approved for use in any atmosphere immediately dangerous to life or health (IDLH), or from which the wearer cannot escape without the aid of the respirator. IDLH is defined in 29 CFR 1910.134(b)

### Head

RT Series respirator hoods DO NOT provide head protection.

### Face

RT Series respirator hoods DO NOT provide face protection. If face protection is required, use the Bullard 20TICH or 20SICH model.

### Eyes

RT Series respirator hoods DO NOT provide eye protection. Wear approved safety glasses or goggles at all times.

### Ears

RT Series respirator hoods DO NOT provide hearing protection. Use properly fitted earmuffs, earplugs or other protection when exposed to high noise levels.

## RT Series Respirator Breathing Air Requirements

### Air Quality

**⚠ WARNING**

The RT Series respirator must be supplied with clean, breathable air, Grade D or better, at all times. This respirator does NOT purify or filter out contaminants. Failure to heed these warnings could result in death or serious injury.

Respirable, breathable air must be supplied to the point-of-attachment of the approved Bullard air supply hose. The point-of-attachment is the point at which the air supply hose connects to the air source. A pressure gauge attached to the air source is used to monitor the pressure of air provided to the respirator wearer (see Figure 2).

Supplied breathing air must AT MINIMUM meet the requirements for Type 1 gaseous air described in the ANSI/Compressed Gas Association Commodity Specification G-7.1 for Grade D or higher quality as specified by Federal regulations 42 CFR, Part 84.141(b) and 29CFR1910.134(i).

The requirements for Grade D breathable air include:

Oxygen. . . . . 19.5-23.5%
Hydrocarbons (condensed) in mg/m3 of gas. . . . . 5 mg/m3 max.
Carbon monoxide. . . . . 10 ppm max.
Carbon dioxide. . . . . 1,000 ppm max.
Odor. . . . . *

No toxic contaminants at levels that make air unsafe to breathe.

*Specific measurement of odor in gaseous air is impractical. Air may normally have a slight odor. The presence of a pronounced odor should render the air unsatisfactory.

Contact the Compressed Gas Association (1725 Jefferson Davis Highway, Arlington, VA 22202) or www.cganet.com for complete details on Commodity Specification G-7.1.

### Air Source

Locate the source of supplied air, whether it is a breathing air compressor or an ambient air pump, such as a Bullard Free-Air® pump, in a clean air environment. Locate the air source far enough from your work site to ensure the air remains contaminant-free. Always use an inlet filter on your air source.

Use suitable after-cooler/dryers with filters, and carbon monoxide monitors and alarms, as necessary to assure clean, breathable air at all times.

The air should be regularly sampled to be sure that it meets Grade D requirements.

## RT Series Respirator Breathing Air Pressure

Air pressure should be monitored at the point-of-attachment while operating this respirator. A reliable air pressure gauge must be present to permit you to monitor pressure during actual respirator operation.

**⚠ WARNING**

Failure to supply the minimum required pressure at the point-of-attachment for your hose length and RT respirator type will reduce airflow and could result in death or serious injury.

## Special or Critical User's Instructions

The Breathing Air Pressure Table (see page 5) defines the air pressure ranges necessary to provide RT Series respirators with a volume of air that falls within the required range of 6-15 cfm or 170-425 lpm (Ref. 42 CFR, Part 84, Subpart J, 84.150).

Make sure you understand the information in the Breathing Air Pressure Table before using this respirator.

1. Determine the type of air source you are using (Column 1), then find your flow control valve/climate control device (Column 2).
2. Be sure your Bullard air supply hose (Column 3) is approved for use with your flow control valve/climate control device.
3. Determine that your Bullard air supply hose is within the approved length (Column 4).
4. Make sure you have not exceeded the maximum number of hose sections (Column 5).
5. Set the air pressure at the point-of-attachment within the required pressure range (Column 6) for your flow control valve/climate control device, and air supply hose type and length.

## RT Series Respirator Breathing Air Supply Hoses and Hose Fittings

NIOSH approved Bullard air supply hose(s) MUST be used between the breathing tube connection fitting on the wearer's belt and the point-of-attachment to the air supply.

NIOSH approved Bullard quick-disconnect fittings MUST be used to connect V5 or V20 hose lengths together. When connecting lengths of V10 hose, only use Bullard V11 hose-to-hose adapters. Secure connection(s) until wrench-tight and leak-free. Total connected hose length and number of hoses MUST be within the ranges specified on the Breathing Air Pressure Table (see page 5).

The breathing tube connection fitting MUST be secured to the belt that is supplied with this respirator. Securing the breathing tube connection helps prevent the air supply hose from snagging, disconnecting or pulling the respirator hood off your head.

# Special or Critical User's Instructions

## RT Breathing Air Pressure Table

This table defines the air pressure ranges necessary to provide CC20 Series respirators with a volume of air that falls within the required range of 6-15 cfm or 170-425 lpm according to U.S. Government regulations (42 CFR, Part 84, Subpart J, 84.150, Table 8).

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| **Air Source** | **Flow Control Valve/ Climate Control Device** | **Air Supply Hose** | **Air Supply Hose Length (feet)** | **Maximum Number of Hose Sections** | **Required Pressure Range (psig air)** |
| Stationary or Portable Air Compressor | F30, F30B, F30S, F31, F32, F33, F34 | V10 | 25<br>50<br>100<br>150<br>200<br>250-300 | 1<br>2<br>3<br>4<br>5<br>5 | 14-15<br>15-18<br>19-24<br>23-29<br>25-34<br>31-39 |
| | F40, F40B, F40S, F41, F42, F43, F44 | V10 | 25<br>50<br>100<br>150<br>200<br>250-300 | 1<br>2<br>3<br>4<br>5<br>5 | 22-25<br>24-27<br>27-32<br>30-37<br>33-40<br>38-45 |
| | | V5 | 25<br>50 | 1<br>2 | 22-26<br>25-30 |
| | AC100030, AC100030B, AC100030S, AC100031, AC100032, AC100033, AC100034 | V10 | 25-50<br>75-150<br>175-300 | 2<br>3<br>5 | 55-65<br>60-70<br>65-75 |
| | | V5 | 25<br>50 | 1<br>1 | 55-65<br>56-69 |
| | DC5040, DC5040B, DC5040S DC5041, DC5042, DC5043, DC5044 | V10 | 50<br>100<br>150<br>200<br>250<br>300 | 2<br>3<br>3<br>3<br>3<br>5 | 52-54<br>59-63<br>68-72<br>80-84<br>85-92<br>90-98 |
| | | V5 | 25<br>50 | 1<br>2 | 53-57<br>67-71 |
| | HC240030, HC240030B, HC240030S, HC240031, HC240032, HC240033, HC240034 | V10 | 25<br>50<br>100<br>150<br>200<br>250<br>300 | 1<br>2<br>3<br>4<br>4<br>5<br>5 | 59-61<br>63-65<br>68-70<br>73-75<br>77-79<br>80-82<br>84-86 |
| | | V5 | 25<br>50 | 1<br>1 | 65-66<br>68-69 |
| Bullard Free-Air® Pumps | F35, F35B, F35S | V20 | 50<br>100<br>200<br>300 | 1<br>2<br>2<br>3 | 4-6<br>6-8<br>10-15<br>13-18 |
| | Frigitron 2000<br>Frigitron 2000B<br>Frigitron 2000S | V20 | 50<br>100<br>200<br>300 | 1<br>2<br>2<br>3 | 16-22<br>18-25<br>22-30<br>25-34 |

## Installing Breathing Tube Assembly in RT Series Respirator Hoods

1. Remove nylon clamp from the breathing tube (see Figure 3). Do not remove foam from inside the 20BT breathing tube, used with RT Series Airline Respirators. The foam helps reduce the noise level of incoming air.

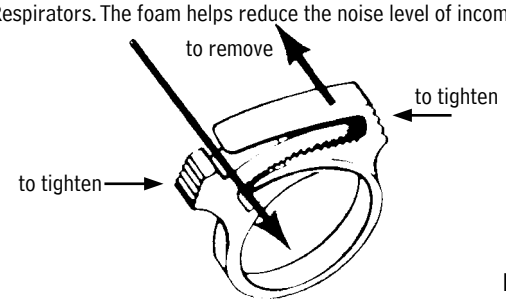



**Figure 3**

2. Insert the open end of the breathing tube approximately five inches into hood's air entry sleeve (see Figure 4).

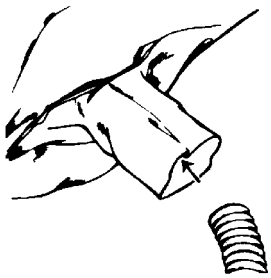


**Figure 4**

3. Install nylon clamp over air entry sleeve and breathing tube. If desired, 2 or more clamps may be used(see Figure 5).

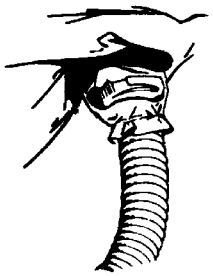


**Figure 5**

4. Engage clamp locks and squeeze together until tight.
5. Attach other end of 20BT or RTBT breathing tube to flow control device on belt by screwing nylon hose connector on flow control device.

### Shortening RTBT Breathing Tube Length

If you find that the RTBT disposable breathing tube is too long, it can be cut down to a shorter length. This cannot be done for the 20BT breathing tube. To do this, first determine how much shorter you need to make the tube. The tube cannot be shortened more than 6 inches. Mark a line with a marker pen where you want to make the cut. Take a sharp cutting instrument and cut through the breathing tube and foam inside. Be careful not to damage the remaining tube or foam. If this does occur, replacement will be necessary.

## Using Climate Control Devices for RT Series Airline Respirators

RT Series Airline Respirators are approved by NIOSH for use with three optional Bullard climate control devices: AC1000 Series, HC2400 Series, and Frigitron 2000 Series.

1. Follow the instructions supplied with your climate control device.
2. Be sure to use only the 20BT or RTBT with your climate control device.
3. Screw nylon hose connector on end of breathing tube to hose thread on climate control device.
4. Firmly tighten hose connector by hand (see Figure 6).

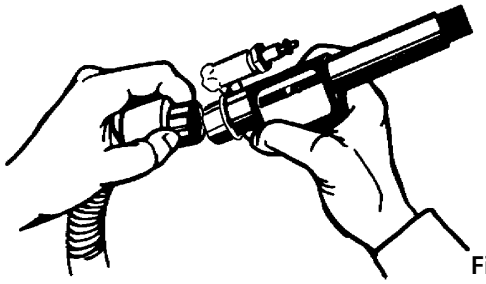


**Figure 6**

5. Lace belt supplied with respirator through belt loop bracket on climate control device.

## RT Series Respirator Use

**⚠ WARNING**

Do not put on or remove these respirators in a hazardous atmosphere except for emergency escape purposes. Failure to heed these warnings could result in death or serious injury.

### Donning the RT Respirator

Before using your RT Series respirator, assemble the respirator using the instructions given on page 6.

1. Connect NIOSH approved Bullard air supply hose to an air source supplying Grade D breathable air as defined on page 4. Turn on breathing air source.
2. With air flowing, connect breathing tube assembly to air supply hose (see Figure 7). Connect quick-disconnect fitting on breathing tube assembly to quick-disconnect coupler on air supply hose. Once fitting is secured, release coupling sleeve to lock fittings together. Pull on both hoses to make sure they are attached securely.

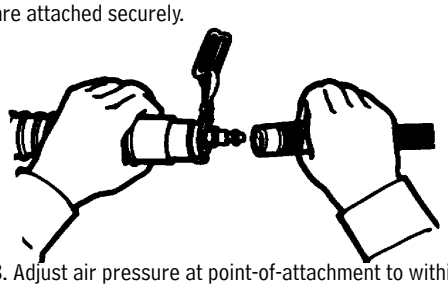


**Figure 7**

3. Adjust air pressure at point-of-attachment to within the approved pressure range (see Figure 8). See the Breathing Air Pressure Table (page 5) for approved pressure ranges.

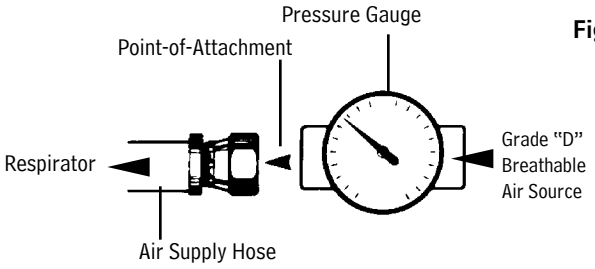



**Figure 8**

4. With air still flowing, put on RT Series respirator hood. Pull the hood over your head until the neck cuff is securely around your neck.

**NOTE**

The RT3 and RT4 hoods have an adjustable velcro strap near the top of the lens that allows the user to customize the curvature of the lens to his/her personal preference. This strap may be removed if desired.

5. Make sure that the breathing tube is not twisted after donning.
6. Tuck inner bib of hood into shirt or protective clothing for additional splash and overspray protection (see Figure 9).

**Figure 9**

7. Pull respirator outer bib over collar of shirt or protective clothing. Pull the long outer bib down on the outside of clothing and secure with tie down straps or tape (if employer operating procedures will allow.)
10. With breathing tube assembly attached to the hood, fasten belt at waist or hip level and adjust for comfort.
11. Recheck air pressure and adjust if necessary.
12. With air flowing into your respirator, you are now ready to enter work area.

### Removing the RT Series Respirator

When finished working, leave work area wearing respirator and with air still flowing. Once outside contaminated area, remove respirator and then disconnect the air supply hose using the quick-disconnect fittings.

## Inspection, Cleaning and Storage

**⚠ WARNING**

Failure to heed these instructions could result in death or serious injury.
LEAVE WORK AREA IMMEDIATELY IF:
- Any respirator component becomes damaged
- Airflow into respirator hood stops or slows down
- Air pressure gauge drops below the minimum specified in the Breathing Air Pressure Table
- Pressure is felt in the ears
- Breathing becomes difficult
- You become dizzy, nauseous, too hot, too cold, or ill
- You taste, smell, or see contaminants inside respirator hood
- Your vision becomes impaired

**⚠ WARNING**

Do not store respirator in your work area or leave it unattended in a contaminated environment. Respirable contaminants can remain suspended in the air for several hours after work activity ceases, even though you may not see them. Proper work practice requires you to wear the respirator until you are outside the contaminated area. If you place or store the respirator in a contaminated environment, contaminants, dirt, and dust could get into the respirator. When you put the respirator back on, you could breathe in contaminants upon reuse. Failure to heed these instructions could result in death or serious injury.

Bullard RT Series respirators have a limited service life. Therefore, a regular inspection and replacement program must be conducted.
Bullard RT Series respirators and all component parts and assemblies should be inspected for damage or excessive wear before and after each use to ensure proper functioning. Immediately remove the respirator from service and replace parts or assemblies that show any sign of failure or excessive wear that might reduce the degree of protection originally provided.
Use only Bullard RT Series respirator components and replacement parts manufactured by Bullard and approved by NIOSH for use with these respirators.
Since respirator use and the quality of maintenance performed vary with each job site, it is impossible to provide a specific time frame for respirator replacement.
Inspect all components of this respirator system during cleaning and before and after each use for signs of wear, tear or damage that might reduce the degree of protection originally provided. Respirators used by more than one person must be cleaned, inspected and sanitized after each use. If not cleaned, contamination may cause illness or disease.

**⚠ WARNING**

The air you breathe will not be clean unless the respirator you wear is clean. Failure to heed this warning could result in death or serious injury.

### Hood

#### Inspection

Inspect the hood material for rips, tears, or damage from excessive wear that might reduce the degree of protection originally provided. Inspect the inner neck cuff for elasticity. The respirator's plastic lens should be inspected for cracks, scratches or any other signs of damage.
Disassemble the breathing tube from the hood by removing the nylon hose clamp. To remove the hose clamp, slide the locks sideways in opposite directions.
If damage is detected, replace immediately with Bullard replacement part(s) or remove the respirator from service.
Cleaning
Bullard does not recommend laundering the hood. When the hood becomes dirty, it should be discarded and replaced. The respirator's plastic lens should be hand-sponged with warm water and mild detergent, rinsed, and air-dried. After cleaning and before reassembling, once again carefully inspect parts for signs of damage.

**⚠ WARNING**

Do not use volatile solvents for cleaning this respirator or any parts and assemblies. Strong cleaning and disinfecting agents, and many solvents, can damage the plastic parts and reduce the protective properties of the respirator. Failure to heed these instructions may result in minor or moderate injury and/or equipment damage.

## Breathing Tube

### Inspection

Inspect the breathing tube for tears, cracks, holes, or excessive wear that might reduce the degree of protection originally provided. If any signs of excessive wear are present, replace the breathing tube immediately or remove the respirator from service.

### Cleaning

To clean the breathing tube, hand-sponge with warm water and mild detergent, being careful not to get water inside. Rinse and air-dry. After cleaning, once again carefully inspect breathing tube for signs of damage.

## Flow Control Valve/ Climate Control Device

### Inspection

Be sure the hose thread is screwed tightly into the breathing tube so no air can escape during use. Check the adjustment knob on the flow control device for cracks and other damage.

### Cleaning

To clean, hand-sponge with warm water and mild detergent, being careful not to get water inside. After cleaning, once again carefully inspect breathing tube for signs of damage. If any signs of excessive wear are present, replace the flow control valve/climate control device or remove the respirator from service.

**⚠ WARNING**

Do not cut or remove the foam that is inside the RT Series Airline Respirator breathing tube. The foam helps reduce the noise level of the incoming air supply. It does not filter or purify your breathing air. NIOSH has approved this respirator with the foam in place. Failure to follow these instructions may result in minor or moderate injury and/or equipment damage.

## Air Supply Hoses

### Inspection

Air supply hose(s) should be inspected closely for abrasions, corrosion, cuts, cracks and blistering. Be sure the hose fittings are crimped tightly to the hose so that no air can escape. Make sure the hose has not been kinked or crushed by any equipment that may have rolled over it.

If any of the above signs are present or any other signs of excessive wear are detected, replace the hose(s) immediately or remove the respirator from service.

### Cleaning

The air supply hose(s) should be hand-sponged with warm water and mild detergent, rinsed and air dried. Do not get water inside the air supply hose. After cleaning, once again carefully inspect air supply hose(s) for signs of damage.

**⚠ WARNING**

Only use air supply hoses that are NIOSH approved for use with the RT Series respirator. Other hoses could reduce airflow and protection, and expose the wearer to life-threatening conditions. Failure to follow these instructions could result in death or serious injury.

## Storage

After reusable respirator components have been cleaned and inspected, place them in a plastic bag or an airtight container.

Store the respirator and parts where they will be protected from contamination, distortion and damage from elements such as dust, direct sunlight, heat, extreme cold, excessive moisture and harmful chemicals. Five-year maximum shelf life.

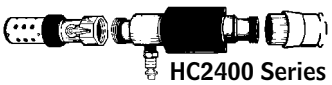
## Parts and Accessories

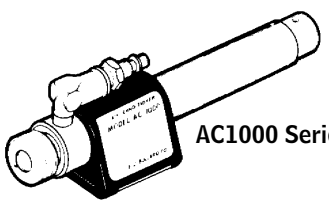
RT Series airline respirators consist of four components – respirator hood, breathing tube, flow control device, and air supply hose. All components must be present and properly assembled to constitute a complete NIOSH approved respirator.

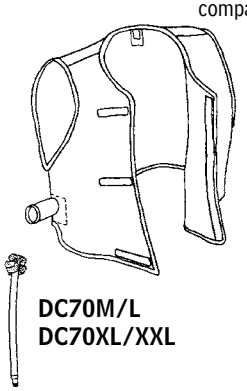
| CATALOG NUMBER | DESCRIPTION |
|---|---|
| **Fully Disposable Respirator Assemblies** | |
| RT1DA | Includes RT1 hood with RTBT breathing tube installed and ready for use |
| RT2DA | Includes RT2 hood with RTBT breathing tube installed and ready for use |
| RT3DA | Includes RT3 hood with RTBT breathing tube installed and ready for use |
| RT4DA | Includes RT4 hood with RTBT breathing tube installed and ready for use |
| **Respirator Assemblies** | |
| **For use with compressed air** | |
| RT130 | Includes RT1 hood, and V30 breathing tube assembly |
| RT230 | Includes RT2 hood, and V30 breathing tube assembly |
| RT330 | Includes RT3 hood and V30 breathing tube assembly |
| RT430 | Includes RT4 hood and V30 breathing assembly |
| **Respirator Hoods** | |
| RT1 | Tychem QC hood, inner bibs, inflatable neck cuff |
| RT2 | Tychem SL hood, inner bibs, inflatable neck cuff |
| RT3 | Tychem QC hood, inner bib, sport neck cuff |
| RT4 | Tychem SL hood, inner bib, sport neck cuff |
| **Accessories** | |
| 36501 | Belt, decontaminable |
| HS | Heat Shield |
| **Flow Control Devices for RT Series Airline Respirators** | |
| **Flow Control Valves** | |
| F30 | Constant flow control valve with 1/4" Industrial Interchange (Hansen compatible) quick-disconnect nipple (other industrial fittings available) |
| F40 | Adjustable flow control valve with 1/4" Industrial Interchange (Hansen compatible) quick-disconnect nipple (other industrial fittings available) |
| F35 | Constant flow control valve with 1/2" Industrial Interchange (Hansen compatible) quick-disconnect nipple |

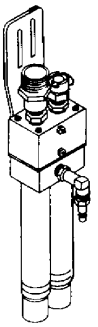
| CATALOG NUMBER | DESCRIPTION |
|---|---|
| **Climate Control Assemblies for RT Series Airline Respirators** | |
| For use with Breathing Air Compressors | |
| **Cold Tubes – Adjustable Flow** | |
| AC100030 | With 1/4" Industrial Interchange steel (Hansen compatible) quick-disconnect nipple |
| AC100031 | With 1/4" Schrader steel quick-disconnect nipple |
| AC100032 | With 1/4" Snap-Tite steel quick-disconnect nipple |
| AC100033 | With 1/4" Snap-Tite brass quick-disconnect nipple |
| AC100034 | With 1/4" Snap-Tite stainless quick-disconnect nipple |
| **Hot/Cold Tubes - Adjustable Flow** | |
| HC2400 | With 1/4" Industrial Interchange steel (Hansen compatible) quick-disconnect nipple |
| HC240031 | With 1/4" Schrader steel quick-disconnect nipple |
| HC240032 | With 1/4" Snap-Tite steel quick-disconnect nipple |
| HC240033 | With 1/4" Snap-Tite brass quick-disconnect nipple |
| HC240034 | With 1/4" Snap-Tite stainless quick-disconnect nipple |
| **Replacement Parts for Climate Control Assemblies** | |
| MV2400 | Muffler/valve assembly for HC2400 |
| **Dual-CooL™ - Climate Control Device** | |
| DC5040 | With 1/4" Industrial Interchange steel (Hansen compatible) quick-disconnect nipple. Includes CH60 connector hose and nylon belt (Order vest separately) |
| DC5041 | Same as above with 1/4" Schrader steel nipple |
| DC5042 | Same as above with 1/4" Snap-Tite steel nipple |
| DC5043 | Same as above with 1/4" Snap-Tite brass nipple |
| DC5044 | Same as above with 1/4" Snap-Tite stainless nipple |
| DC70M/L | Medium/Large cooling vest |
| DC70XL/XXL | Extra Large/XX-Large cooling vest |
| **Climate Control Assembly For use with Bullard EDP30 or ADP20 Free-Air Pump** | |
| **Cool Tube - Adjustable Flow** | |
| Frigitron® 2000 | With 1/2" Industrial Interchange steel (Hansen compatible) quick-disconnect nipple. |

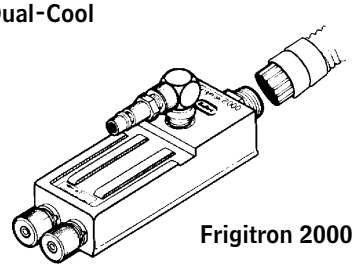
RT Series Hood


HC2400 Series


AC1000 Series


DC70M/L
DC70XL/XXL


DC5040
Dual-Cool


Frigitron 2000

# Parts and Accessories

## Air Supply Hoses and Fittings for CC20 Series Airline Respirators

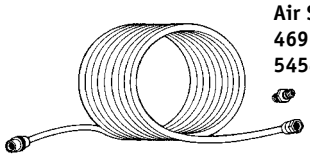
| CATALOG NUMBER | DESCRIPTION |
|---|---|
| **V10 Series Starter Hose Kits** | |
| For use with Breathing Air Compressors | |
| Include 25' (7.6m), 3/8" I.D. rubber hose with 1/4" female quick-disconnect coupler and V13 adapter fitting (3/8" hose-to-3/8" pipe) | |
| 4696 | With 1/4" Industrial Interchange steel (Hansen compatible) quick-disconnect coupler |
| 46913 | With 1/4" Schrader steel quick-disconnect coupler |
| 46915 | With 1/4" Snap-Tite steel quick-disconnect coupler |
| **V10 Series Extension Hose Kits** | |
| For use with Breathing Air Compressors | |
| Include 3/8" I.D. rubber hose, V11 hose-to-hose adapter fitting and V13 hose-to-pipe fitting (3/8" hose-to-3/8" pipe) | |
| 5454 | 25' (7.6 m) Extension hose kit |
| 5457 | 50' (15.2 m) Extension hose kit |
| 5458 | 100' (30.5 m) Extension hose kit |
| **V5 Series Coiled Hoses** | |
| For use with Breathing Air Compressors | |
| Include 3/8" I.D. Nylon coiled hose with 1/4" female quick-disconnect coupler and 1/4" male quick-disconnect nipple. | |
| V52530 | 25' (7.6 m) with 1/4" Industrial Interchange steel (Hansen compatible) fittings |
| V55030 | 50' (15.2 m) with 1/4" Industrial Interchange steel (Hansen compatible) fittings |
| V52531 | 25' (7.6 m) with 1/4" Schrader steel quick-disconnect fittings |
| V55031 | 50' (15.2 m) with 1/4" Schrader steel quick-disconnect fittings |
| V52532 | 25' (7.6m) with 1/4" Snap-Tite steel fittings |
| **V5 Series Kink-Free Hoses *** | |
| XXX is designation RED, GRN, BLK, YLW, BLU | |
| For use with Breathing Air Compressors | |
| Include 3/8" I.D. Nylon coiled hose with 1/4" female quick-disconnect coupler and 1/4" male quick-disconnect nipple. | |
| V5KF2530XXX | 25' (7.6 m) with 1/4" Industrial Interchange steel (Hansen compatible) fittings |
| V5KF5030XXX | 50' (15.2 m) with 1/4" Industrial Interchange steel (Hansen compatible) fittings |
| V5KF2531XXX | 25' (7.6 m) with 1/4" Schrader steel quick-disconnect fittings |
| V5KF5031XXX | 50' (15.2 m) with 1/4" Schrader steel quick-disconnect fittings |
| V5KF2532XXX | 25' (7.6m) with 1/4" Snap-Tite steel fittings |
| V5KF5032XXX | 50' (15.2 m) with 1/4" Snap-Tite steel fittings |
| V5KF2533XXX | 25' (7.6m) with 1/4" Snap-Tite brass fittings |
| V5KF5033XXX | 50' (15.2 m) with 1/4" Snap-Tite brass fittings |
| V5KF2533XXXFF | 25' (7.6m) with 1/4" Snap-Tite brass fittings |
| V5KF5033XXXFF | 50' (15.2 m) with 1/4" Snap-Tite brass fittings |
| V5KF2533XXXFS | 25' (7.6m) with 1/4" Snap-Tite brass fittings |
| V5KF5033XXXFS | 50' (15.2 m) with 1/4" Snap-Tite brass fittings |
| V5KF2535XXX | 25' (7.6 m) with 1/2" Industrial Interchange steel (Hansen compatible) fittings |
| V5KF5035XXX | 50' (15.2 m) with 1/2" Industrial Interchange steel (Hansen compatible) fittings |

| CATALOG NUMBER | DESCRIPTION |
|---|---|
| **V20 Series Hoses** | |
| For use with Bullard Free-Air Pumps | |
| Include 1/2" I.D. rubber hose with 1/2" Industrial Interchange (Hansen compatible) female quick-disconnect coupler and | |
| **1/2" male quick-disconnect nipple** | |
| V2050ST | 50' (15.2 m) |
| V20100ST | 100' (30.5 m) |
| **Quick-Disconnect Nipples, Couplers and Adapters** | |
| For use with V10 hoses only | |
| **Nipples** | |
| **1/4" Industrial Interchange (Hansen compatible)** | |
| S9841 | With 1/4" Female NPT |
| V17 | With 3/8" Female NPT |
| **1/4" Schrader** | |
| S19432 | With 1/4" Female NPT |
| S19433 | With 3/8" Female NPT |
| **1/4" Snap-Tite** | |
| S19442 | With 1/4" Female NPT |
| S17651 | With 3/8" Female NPT |
| **Couplers (Shut-Off Type)** | |
| **1/4" Industrial Interchange (Hansen compatible)** | |
| V14 | With 1/4" Female NPT |
| V15 | With 3/8" Male NPT |
| **1/4" Schrader** | |
| V18 | With 1/4" Female NPT |
| S17603 | With 1/4" Male NPT |
| S17601 | With 3/8" Male NPT |
| **1/4" Snap-Tite** | |
| V19 | With 1/4" Female NPT |
| S17615 | With 3/8" Female NPT |
| S17611 | With 1/4" Male NPT |
| S17614 | With 3/8" Male NPT |
| **Hose Adapters** | |
| V11 | Hose-to-hose, 3/8" hose to 3/8" hose |
| V12 | Hose-to-pipe, 3/8" hose to 1/4" pipe |
| V13 | Hose-to-pipe, 3/8" hose to 3/8" pipe |
| **Other Available Flow Control Assemblies (without breathing tube) for RT Series Airline Respirators** | |
| **Adjustable Flow** | |
| F40 | 1/4" Industrial Interchange |
| F40B | 1/4" Industrial Interchange (Brass) |
| F40S | 1/4" Industrial Interchange (Stainless Steel) |
| F41 | 1/4" Schrader |
| F42 | 1/4" Snap-Tite, steel |
| F43 | 1/4" Snap-Tite, brass |
| F44 | 1/4" Snap-Tite, stainless steel |
| **Constant Flow** | |
| F30 | 1/4" Industrial Interchange |
| F30B | 1/4" Industrial Interchange (Brass) |
| F30S | 1/4" Industrial Interchange (Stainless Steel) |
| F31 | 1/4" Schrader |
| F32 | 1/4" Snap-Tite, steel |
| F33 | 1/4" Snap-Tite, brass |
| F34 | 1/4" Snap-Tite, stainless steel |
| F35 | 1/2" Industrial Interchange |
| F35B | 1/2" Industrial Interchange (Brass) |
| F35S | 1/2" Industrial Interchange (Stainless Steel) |

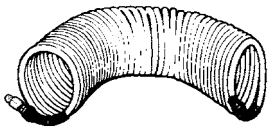
## Parts and Accessories

**Adjustable Cool Tubes**

| Cold Only | Hot/Cold | Dual-Cool | Coupling Type | |
|---|---|---|---|---|
| AC100030 | HC240030 | DC5040 | 1/4" Industrial Interchange | 1/4" Snap-Tite, steel |
| AC100030B | HC240030B | DC5040B | 1/4" Industrial Interchange (Brass) | 1/4" Snap-Tite, brass |
| AC100030S | HC240030S | DC5040S | 1/4" Industrial Interchange (Stainless Steel) | 1/4" Snap-Tite, stainless steel |
| AC100031 | HC240031 | DC5041 | 1/4" Schrader | |
| AC100032 | HC240032 | DC5042 | | |
| AC100033 | HC240033 | DC5043 | | |
| AC100034 | HC240034 | DC5044 | | |
| FRIGITRON2000 | | | | |
| FRIGITRON2000B | | | | |



**Air Supply Hose**
**4696,46913, 46915, 5454, 5457, 5458**



**V5 Coiled Hose**
**V52530, V55030, V52531, V55031, V52532, V55032**

## Return Authorization

The following steps must be completed before Bullard will accept any returned goods. Please read carefully.
Follow the steps outlined below to return goods to Bullard for repair or replacement under warranty or for paid repairs:

1. Contact Bullard Customer Service by telephone or in writing at:

**Bullard**
1898 Safety Way
Cynthiana, KY 41031-9303
Toll-free: 877-BULLARD (285-5273)
Phone: 859-234-6616

In your correspondence or conversation with Customer Service, describe the problem as completely as possible. For your convenience, your Customer Service specialist will try to help you correct the problem over the phone.

2. Verify with your Customer Service specialist that the product should be returned to Bullard. Customer Service will provide you with written permission and a return authorization number as well as the labels you will need to return the product.

3. Before returning the product, decontaminate and clean it to remove any hazardous materials which may have settled on the product during use. Laws and/or regulations prohibit the shipment of hazardous or contaminated materials. Products suspected to be contaminated will be professionally discarded at the customer's expense.

4. Ship returned products, including those under warranty, with all transportation charges pre-paid. Bullard cannot accept returned goods on a freight collect basis.

5. Returned products will be inspected upon return to the Bullard facility. Bullard Customer Service will telephone you with a quote for required repair work which is not covered by warranty. If the cost of repairs exceeds stated quote by more than 20%, your Customer Service specialist will call you for authorization to complete repairs. After repairs are completed and the goods have been returned to you, Bullard will invoice you for actual work performed.

ISO 9001 certified

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